

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO36206 Receipt Dates from 5/10/2017 to 5/10/2017

Total Received Quantity:
Total Qty to Inspect (PO U/M):
Total Reject Quantity:
Total Receipt Value:
Total Balance Due Quantity:

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Shipping Order

11/05/2017

Order : 125310
Reference : 36206
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
SF14124HR	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N 304 STAIN FLA .25" X .500" HR 10 X 12.42' HT;56900658	124.2	124.2	Ø
MR384130	4130 .375 DIAM 1 X 12' HT;183052	12	12	Ø

SHIP JOURNEY COLLECT
JP

Q7-5-18

Shipping :
Package No :
Merchandise Received:

Ref. :
:

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7
Canada

18 Novembre 2016

Description: 4130 CF NORM AQ BAR AMS 6348
3/8 RD X 12" R/L Line Total: 12 LB
HEAT: 183052 ITEM: 507780

Specifications:

MIL S 6758 B	AMS 2301 K	AMS 6348 C
AMS 6370 N	AMS S 6758 A	ASTM A108 13
ASTM A304 11	ASTM A322 13	ASTM A751 14
ASTM A29/A29M 12E1	ASTM A331 95 00	MIC 2016 12
EN 10204 3.1 04	ASTM A255 10	ASTM E45 METHOD A 13
ASTM E10 15	ASTM E384 99	ASTM E112 13
ASTM E381 06	ASTM E709 14	

CHEMICAL ANALYSIS

C	MN	SI	P	S	CR	NI	MO
0.29	0.46	0.25	0.012	0.003	0.85	0.13	0.16
CU	AL						
0.16	0.004						

RCPT: R877203

COUNTRY OF ORIGIN : SPAIN

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
					219

Description: 4130 CF NORM AQ BAR AMS 6348

3/8 RD X 12' R/L

Line Total: 12 LB

HEAT: 183052

ITEM: 507780

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
51	51	50	49	48	45	43	41	38	37	34	33	33	32	31
16	18	20	22	24	26	28	30	32						
31	31	31	31	30	30	29	28	26						

GRAIN SIZE :7 -

CLEANLINESS

	A		B		C		D	
	THIN MAX	THICK MAX	THIN MAX	THICK MAX	THIN MAX	THICK MAX	THIN MAX	THICK MAX
e45	0.5	0.0	1.0	0.0	0.0	0.0	0.5	0.0

STRAND CAST REDUCTION RATIO 305.89999 TO 1 VACUUM DEGASSED
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
DECARB: OK
MACRO: OK
MICRO1: OK
AMS NO :0000
SEVERITY :0.1
FREQUENCY:0.1

ITEM: 1X 12'

REF: 34360

BOLLINGHAUS STEEL Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458		Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1		No.: / Nr.: / Nr.: 0000119911											
		Unsere Innere Verweisung / Our Int. Ref/ N/ ref Int 5600031591 000040		Datum / Date / Data 26.09.2016											
Normen / Standards / Normas TYPE 304/UNS S30400 and TYPE 304/UNS S30403 acc. to ASTM A479/A479M-16 (A276/A276M-16a, SAE-AMS-QQ-S 763D, AMS5639H, AMS5647J, ASME SA479/SA479M, ASME SA276, ASTM A182/A182M-16a F304/304L, A193/A193M-16 CL 1Gr.B8, ASTM A314-15, ASTM A320/A320M-15a, DOD-F24069/6, ASME SA182/SA182M, ASME SA 193/SA193M, ASME SA320 CL 1Gr.B8, ASTM A262-15 Practice E, grain size as per ASTM E112, NACE MR 0175, Mercury free statement, not weld repair statement, contents of N, Co, Mo and Cu, in hot rolled, solution annealed, pickled, straightened execution as per ASTM A484/A484M-16															
Kunde / Customer / Cliente			Endgültiger Kunde / Final Customer / Cliente Final												
Bestell Nr./Order Nr./ Enc.Nr. C105024			Bestell Nr./ Order Nr./ Enc.Nr. C105024.01												
Produktgruppe / Product Group / Grupo Produto AISI 304/L FLAT 1/4 X 1/2"		Gewicht / Weight / Peso 1.059 lb		Bunde / Bundle / Atados 01											
Werkstoff-Nr. Material no. Qualidade 1.4307		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9													
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, solution annealed, straightened, pickled. US DRAR 252,225-7009. MELT SOURCE: United Kingdom / MFG: Portugal.															
Stempel-Nr. Cast nr. / Furação nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %													
5600031591 EAF+AOD		C	0.030	Si	0.228	Mn	1.830	P	0.030	S	0.026	Cr	18.100	Ni	8.100
		Mo	0.430	Co	0.205	Cu	0.290	N	0.004	Ti	0.003	Nb	0.021	Al	0.006
Problem Nr. Test no. Amostra no.		ASTM E399 Kerbschlagarbeit Impact Test Resiliência (Charpy V)		Streckgrenze Yield point Tensão limite Rp 0.2 %		Dehngrenze 1% point Limite de extensão Rp 1.0%		Zugfestigkeit Tensile strength Tensão de rotura Rm		Dehnung Elongation Alongamento A5 40		Einschnürung Reduction of area Coef. Estricção Z			
		[J]		[Ksi]		[Ksi]		[Ksi]		[%]		[%]			
		4082619.0101		47.1		54.5		93.5		56.1		59.3			
Visuelle Kontrolle Visual inspection Inspeção visual		<input checked="" type="checkbox"/> OK		ASTM E10 Härte Hardness Dureza 190 [HB]		ASTM A262 Practice E Korrosionsbeständigkeit IC Test Corrosão Intermetálica		<input checked="" type="checkbox"/> OK		Wärmebehandlung Heat treatment Tratamento térmico Annealed Quenched 1900 °F (1050 °C) (water quenched)					
Markkontrolle Dimensional inspection Inspeção dimensional		<input checked="" type="checkbox"/> OK		ASTM E112 Korngröße Grain size Tamanho de grão 9		Werkstoffverständiger Quality Control Representative Inspetor de Qualidade N 30587 Nuno Silva (N. NS)									
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/> OK		Makroskopische Untersuchung Macrographic test Material free from segregation defects.		<input checked="" type="checkbox"/> OK									
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.						Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.									

19447

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304R0.250X.500

PO / BATCH NO.: 03006/M137512

DATE: MAY 19 2017

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .250

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: .250

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	Astm A276
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	HT # 56900658
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>CB</u>		SIGNED OFF BY: _____	
DATE: <u>MAY 19 2017</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NRO.375
 DATE: MAY 19 2017

PO / BATCH NO.: PO36200/M137512

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375
 THICKNESS RECEIVED: .370
 SHEET SIZE ORDERED:
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	AMS 6348
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	HT # 183052
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>CB</u>	SIGNED OFF BY: _____
DATE: <u>MAY 19 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36206**

Purchase Order Date 5/5/2017 10:58:05 AM

PO Print Date 5/5/2017

Page Number 1 of 2

Order From :

VC-MET002

Ship To : DART AEROSPACE LTD

METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
MAY 05 2017

Contact Name

Vendor Phone 800 558 8858

Ship To Contact

Ship To Phone

Ship Via: Journey Freight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB


Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304B0.250x0.500	304 BAR .250 x .500	5/10/2017 Yes 5/10/2017		120.00 f 124.2	\$4.25	\$510.00
MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS AS PER ASTM A276 OR ASTM A240							
NOTE: AISI 303 NOT ACCEPTABLE							
Line Total:							\$510.00
2	M4130NR0.375	4130 steel RD bar .375"	5/10/2017 Yes 5/10/2017		12.00 f	\$14.90	\$178.80
MATERIAL: AS PER AISI 4130N ROUND BAR PER MIL-S-6758 OR AMS 6348/6370/6528							
Line Total:							\$178.80

PO Instructions: BID 22826

Note:

5/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36206

Purchase Order Date 5/5/2017 10:58:05 AM
PO Print Date 5/5/2017

Page Number 2 of 2

Order From :
METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

VC-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer		Chantal Lavoie	
Vendor Phone		Customer POID			
800 558 8858		Customer Tax #		10127-2607	
Ship To Contact		Terms		Net 30	
Ship To Phone		Currency		CAD	
Ship Via:		FOB		Destination-Collect	
Ship Acct:					

4	71401-45	PROCUREMENT QUALITY CLAUSES	5/10/2017	1.00	\$0.00	\$0.00
			No			
			5/10/2017			
Procurement Quality Clauses						
A005 right of entry						
A012 chemical and physical test report						
A016 personnel qualification						
A017 raw material identification (as applicable)						
A026 certification of material conformance						
A041 quality management system						
A042 dart notification by supplier						
A043 retension of quality documents						

2017-5-18

2017-5-18

Line Total: \$0.00

PO Total: \$688.80

PO Instructions: BID 22826

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1 **Change Date:** 5/5/2017